

# INTELLIGENT DOCKING STATION FOR A HANDHELD

## PERSONAL COMPUTER

### ABSTRACT

The invention transfers a data element from a device to a handheld computer.

5 In general, the method receives a device-based data element at a docking station  
based co-processor, performs a driver conversion to convert the device-based data  
element into a bus-enabled data element, and places the bus-enabled data element on  
a handheld compatible bus. The method may also transform a data packet by  
detecting an input packet, retrieving a packet identifier (ID) from the input packet,  
10 and dispatching the input packet to a device driver based on the packet ID, the device  
driver capable of converting the input packet from a handheld computer packet type  
to a device packet type. The invention is also the systems that enable the method.  
As a device, the invention is an intelligent docking station. The intelligent docking  
station includes a co-processor capable of converting a hand held-based data element  
15 into a device enabled data element, a bus interface coupled to the co-processor, and a  
port coupled to the co-processor. The invention is also a system that incorporates the  
intelligent docking station.